AMENDMENTS TO THE CLAIMS

1. (Original) A method for processing objects within a data processing system in a network, the method comprising:

searching a cache to determine that a set of fragments associated with a set of source identifiers are not in the cache, wherein a source identifier identifies a source location for obtaining a fragment;

sending a first request message comprising the set of source identifiers; and

receiving a first response message comprising the set of fragments.

2. (Original) The method of claim 1 further comprising:

determining that a fragment comprises a set of linking elements for a set of next-level fragments, wherein each linking element comprises a source identifier; and

scanning the fragment to retrieve the set of source identifiers.

3. (Original) The method of claim 2 further comprising:

retrieving the set of fragments from the first response message; and

combining the fragment and the set of fragments into an assembled fragment.

4. (Original) The method of claim 1 further comprising:

receiving a second request message; and

retrieving the set of source identifiers from the second request message.

5. (Original) The method of claim 4 further comprising:

sending a second response message comprising the set of fragments.

6. (Original) The method of claim 5 wherein the second response message is a multi-part MIME (Multipurpose Internet Mail Extension) response message.

7. (Original) The method of claim 1 wherein the first response message is a multi-part MIME response message.

8. (Original) The method of claim 1 wherein a source identifier is formatted as a URI (Uniform Resource Identifier).

9. (Original) The method of claim 2 wherein a linking element is defined using SGML (Standard Generalized Markup Language).

10. (Currently Amended) The method of claim [[A1]] 1 wherein the first response message is an HTTP (Hypertext Transport Protocol) Response message and the first request message is an HTTP Request message.

11. (Currently Amended) A method for processing objects within a data processing system in a network, the method comprising:

receiving a request message at a server, wherein the request message comprises a set of source identifiers for a set of fragments;

searching a cache to determine if a plurality of the set of fragments are not in the cache;

sending a first request message comprising a plurality of source identifiers associated with the plurality of the set of fragments not in the cache;

receiving a first response message comprising the plurality of the set of fragments not in the cache;

generating a response message comprising the set of fragments; and

sending the response message.

12. (Original) An apparatus for processing objects within a data processing system in a network, the apparatus comprising:

means for searching a cache to determine that a set of fragments associated with a set of source identifiers are not in the cache, wherein a source identifier identifies a source location for obtaining a fragment;

means for sending a first request message comprising the set of source identifiers; and

means for receiving a first response message comprising the set of fragments.

13. (Original) The apparatus of claim 12 further comprising:

means for determining that a fragment comprises a set of linking elements for a set of next-level fragments, wherein each linking element comprises a source identifier; and

means for scanning the fragment to retrieve the set of source identifiers.

14. (Original) The apparatus of claim 13 further comprising:

means for retrieving the set of fragments from the first response message; and

means for combining the fragment and the set of fragments into an assembled fragment.

15. (Original) The apparatus of claim 12 further comprising:

means for receiving a second request message; and

means for retrieving the set of source identifiers from the second request message

16. (Original) The apparatus of claim 15 further comprising:

means for sending a second response message comprising the set of fragments.

17. (Original) The apparatus of claim 16 wherein the second response message is a multi-part MIME (Multipurpose Internet Mail Extension) response message.

18. (Original) The apparatus of claim 12 wherein the first response message is a multi-part MIME response message.

19. (Original) The apparatus of claim 12 wherein a source identifier is formatted as a URI (Uniform Resource Identifier).

20. (Original) The apparatus of claim 13 wherein a linking element is defined using SGML (Standard Generalized Markup Language).

21. (Original) The apparatus of claim 12 wherein the first response message is an HTTP (Hypertext Transport Protocol) Response message and the first request message is an HTTP Request message.

22. (Currently Amended) An apparatus for processing objects within a data processing system in a network, the apparatus comprising:

means for receiving a request message at a server, wherein the request message comprises a set of source identifiers for a set of fragments;

means for searching a cache to determine if a plurality of the set of fragments are not in the cache;

means for sending a first request message comprising a plurality of source identifiers associated with the plurality of the set of fragments not in the cache;

means for receiving a first response message comprising the plurality of the set of fragments not in the cache;

means for generating a response message comprising the set of fragments; and

means for sending the response message.

23. (Original) A computer program product in a computer readable medium for use within a data processing system in a network for processing objects, the computer program product comprising:

instructions for searching a cache to determine that a set of fragments associated with a set of source identifiers are not in the cache, wherein a source identifier identifies a source location for obtaining a fragment;

instructions for sending a first request message comprising the set of source identifiers; and

instructions for receiving a first response message comprising the set of fragments.

24. (Original) The computer program product of claim 23 further comprising:

instructions for determining that a fragment comprises a set of linking elements for a set of next-level fragments, wherein each linking element comprises a source identifier; and

instructions for scanning the fragment to retrieve the set of source identifiers.

25. (Original) The computer program product of claim 24 further comprising:

instructions for retrieving the set of fragments from the first response message; and

instructions for combining the fragment and the set of fragments into an assembled fragment.

26. (Original) The computer program product of claim 23 further comprising:
instructions for receiving a second request message; and
instructions for retrieving the set of source identifiers from the second request message.

27. (Original) The computer program product of claim 26 further comprising:
sending a second response message comprising the set of fragments.

28. (Original) The computer program product of claim 27 wherein the second response message is a multi-part MIME (Multipurpose Internet Mail Extension) response message.

29. (Original) The computer program product of claim 23 wherein the first response message is a multi-part MIME response message.

30. (Original) The computer program product of claim 23 wherein a source identifier is formatted as a URI (Uniform Resource Identifier).

31. (Original) The computer program product of claim 24 wherein a linking element is defined using SGML (Standard Generalized Markup Language).

32. (Original) The computer program product of claim 23 wherein the first response message is an HTTP (Hypertext Transport Protocol) Response message and the first request message is an HTTP Request message.

33. (Currently Amended) A computer program product for processing objects within a data processing system in a network, the computer program product comprising:
instructions for receiving a request message at a server, wherein the request message comprises a set of source identifiers for a set of fragments;

instructions for searching a cache to determine if a plurality of the set of fragments are not in the cache;

instructions for sending a first request message comprising a plurality of source identifiers associated with the plurality of the set of fragments not in the cache;

instructions for receiving a first response message comprising the plurality of the set of fragments not in the cache;

instructions for generating a response message comprising the set of fragments; and

instructions for sending the response message.